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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/724,169 12/01/2003		12/01/2003	Hee-Deuk Park	1793.1088	9395	
21171	7590	06/22/2006		EXAM	EXAMINER	
STAAS &	HALSEY	/ LLP	CHEN, TIANJIE			
SUITE 700 1201 NEW	YORK AV	VENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHING		•	2627			
			DATE MAILED: 06/22/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.		Applicant(s)					
Office Action Summary			10/724,169		PARK ET AL.					
			Examiner		Art Unit					
	·		Tianjie Chen		2627					
Period fo	The MAILING DATE of this commu or Reply	nication appe	ars on the cover	sheet with the c	orrespondence ad	ddress				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MISSION SOLVER IS LONGER, FROM THE MISSION SOLVER IS LONGER, BOTH THE MISSION SOLVER IS SELVER IN THE MISSION SOLVER IS SELVER IN THE MISSION SOLVER IS SELVER IN THE MISSION SOLVER IS A SELVER IN THE MISSION SOLVER IN THE MISSION SOLVER IS A SELVER IN THE MISSION SOLVER IS A SELVER IN THE MISSION SOLVER IN THE MISSIO	MAILING DAT s of 37 CFR 1.136(munication. tatutory period will y will, by statute, ca	TE OF THIS CO (a). In no event, hower apply and will expire S ause the application to	MMUNICATION ver, may a reply be tim SIX (6) MONTHS from to become ABANDONE	l. ely filed the mailing date of this of (35 U.S.C. § 133).					
Status										
1)	Responsive to communication(s) fil	ed on .	_							
		action is non-fina	on is non-final							
'										
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims									
4)⊠	Claim(s) <u>1-6</u> is/are pending in the application.									
-	4a) Of the above claim(s) is/are withdrawn from consideration.									
	Claim(s) is/are allowed.									
· -	Claim(s) <u>1-6</u> is/are rejected.									
7)	Claim(s) is/are objected to.									
8)[_									
Applicati	on Papers									
9)[]	The specification is objected to by the	ne Examiner.								
· —				ected to by the E	Examiner.					
/—	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:										
,-	1. Certified copies of the priority documents have been received.									
	2. Certified copies of the priority documents have been received in Application No									
	3. Copies of the certified copies					l Stage				
	application from the Internation					-				
* See the attached detailed Office action for a list of the certified copies not received.										
Attachment	t(s)									
1) Notice	e of References Cited (PTO-892)			nterview Summary						
	e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO-1449 or			Paper No(s)/Mail Da Notice of Informal Pa	te atent Application (PT	O-152)				
	No(s)/Mail Date	1 10/30/00)		Other:	and it is a production of the	- 102,				

Non-Final Rejection

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant admitted Prior Art (AAPA) in view of Shi et al (US 6,339,200).

Claim 1, AAPA shows an optical disc drive including: a case having a circuit board 12 ([0005]); a tray 16 ([0005]) to have an optical disc mounted thereon, and installed in the case and slidable in and out of the case; a main base 30 ([0006]) coupled to the tray, the main base including a spindle motor to rotate the optical disc, a bracket 40 ([0006]) to support the spindle motor, an optical pickup 20 ([0006]) to access the optical disc and a driving motor to drive the optical pickup; a flexible printed circuit 14 ([0006]) electrically connecting the circuit board and the tray, on which a ground pattern is formed ([0006] lines 5-6); and a base cover 60 ([0007]) coupled to the main base to protect the main base, wherein an ground pattern, which is formed on pad of the flexible printed circuit; and a contact portion 53 of a leaf spring is formed on the base cover for grounding 50 ([0007]); so the base cover is

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grounded; but does not explicitly show that a contact portion electrically contacts the exposure portion of the ground pattern.

Shi et al teaches a structure, wherein a plate 6 has a contact portion electrically contacting the exposure portion of the ground pattern 7b so that static electricity applied to the base cover is grounded and the device is protected against damage due to static electricity (Column 4, lines 14-23). One of ordinary skill in the art would have been motivated to set the contact portion on the cover to electrically contact the exposure portion of the ground pattern for protect the device from static electricity.

Claim 2, AAPA shows the flexible printed circuit includes: a first flexible printed circuit 12 electrically connecting the circuit board and the main base 30 ([0006]); and a second flexible printed circuit 24 electrically connecting the main base and the tray, wherein the exposure portion of the ground pattern is formed on an end portion of the second flexible printed circuit.

Claim 5, AAPA shows that the base cover is coated with an insulation layer ([0007]).

3. Claims 3, 4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA and Shi et al as applied to claim 1 above, and further in view of Chen (US 6,590,848).

Claims 3 and 4, AAPA shows that the contact portion is fixed on the main base by a screw toward the exposure portion of the ground pattern, but does not show that it is formed by cutting a pad of the base cover and bending the cut part.

Chen shows a contact portion 228 (Fig. 2; column 3, lines 29-32) is formed by cutting a pad of the cage and bending the cut part; and teaches that as the contact

Application/Control Number: 10/724,169

Art Unit: 2627

portion is made by screws making the task cumbersome and time consuming. the improved contact portion is easily for installation without the shortcomings as mentioned above (Column 1, lines 43-48). One of ordinary skill in the art would have been motivated to replace AAPA's contact portion by the design taught by Chen foe overcoming the shortcomings.

Page 4

Claim 6, the above constructed device is an optical disc drive including; a case having a circuit board; a tray to have an optical disc mounted thereon, and installed in the case and slidable in and out of the case; a main base coupled to the tray, the main base including a spindle motor to rotate the optical disc, a bracket to support the spindle motor, an optical pickup to record data on the optical disc and reproduce data while sliding across the optical disc and a driving motor to drive the optical pickup; a flexible printed circuit electrically connecting the circuit board and the tray, wherein a ground pattern is formed on an end portion of the flexible printed circuit and a portion of the ground pattern is exposed outwardly to ground static electricity; and a base cover coupled to the main base and coated with an insulation layer to protect the main base, wherein a contact portion of the base cover is bent toward the portion of the ground pattern and a cut surface of the contact portion is not coated with the insulation layer to allow electricity to flow from the contact portion to the portion of the ground pattern.

Conclusion

4. The prior art made of record in PTO-892 Form and not relied upon is considered pertinent to applicant's disclosure.

Application/Control Number: 10/724,169

Art Unit: 2627

Any inquiry concerning this communication or earlier communications from the

Page 5

examiner should be directed to Tianjie Chen whose telephone number is 571-272-

7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TIANJIE CHEN

PRIMARY EXAMINER